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75	590 02/28/2006	EXAMINER		
COOK, ALEX, McFARRON, MANZO, CUMMINGS & MEHLER, LTD. SUITE 2850			PERRY, ANTHONY T	
			ART UNIT	PAPER NUMBER
200 WEST AD		2879		
CHICAGO, IL 60606			DATE MAILED: 02/28/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/602,980	YAMAZAKI ET AL.				
Office Action Summary	Examiner	Art Unit				
•		2879				
The MAILING DATE of this communication app	Anthony T. Perry ears on the cover sheet with the co					
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONED	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 17 O	<u>ctober 2005</u> .					
,	This action is FINAL. 2b) This action is non-final.					
, 	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-15 and 23-66 is/are pending in the a 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 37-41 and 43-52 is/are allowed. 6) ☐ Claim(s) 1-6, 8-15, 23-27,29-36,53-57,59-66 is 7) ☐ Claim(s) 7,28,42 and 58 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration. /are rejected.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Nation of References Cited (RTO 802)	Al 🖂 Intonious Summero	(PTO 413)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7/14, 10/17 & 1/06. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

DETAILED ACTION

Response to Amendment

The Amendment filed on 10/17/05, has been entered and acknowledged by the Examiner.

Cancellation of claims 6 and 16-22 has been entered.

Claims 23-66 have been added.

Claim Objections

Claims 42 are objected to under 37 CFR 1.75 as being a substantial duplicate of claim 41. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Applicant is advised that should claim 7 be found allowable, claim 28 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 1-3, 5, 10, 12, and 53-57, 61, and 63 are rejected under 35 U.S.C. 102(b) as being anticipated by Hamada (US 6,114,715).

Regarding claims 1 and 10, Hamada teaches a light-emitting device comprising an anode as the first electrode (103) connected to a thin film transistor (43) over a substrate (102) having an insulating surface; a partition wall (54 + 2) covering an edge of the first electrode (103), a layer comprising an organic compound (104-107) in contact with the first electrode (103); and a cathode as the second electrode (108) in contact with the layer comprising an organic compound, wherein the partition wall comprises a laminate of an organic resin layer (54) and a light-absorbing layer (2) (see Fig. 8). Hamada teaches that the light-absorbing layer (2) in Fig. 8 may be replaced by the multilayer film (24) which inherently absorbs light (see col. 9, lines 48-51).

Regarding claim 2, the partition wall (54 + 2) covers other regions than a light emitting region in which the first electrode (103) and the organic compound-containing layer (104-107) are in contact with each other and laid on top of each other (see Fig. 8).

Regarding claims 3 and 5, Hamada teaches the multilayer film including a layer that comprises silicon oxide (see col. 7, lines 9-11).

Regarding claim 12, Hamada teaches the organic compound being a material emitting blue light (see col. lines 23-32).

Regarding claims 53 and 61, Hamada teaches a light-emitting device comprising an anode as the first electrode (103) connected to a thin film transistor (43) over a substrate (102) having an insulating surface; a partition wall (54 + 2) covering an edge of the first electrode (103); a layer comprising an organic compound (104-107) in contact with the first electrode

(103); and a cathode as the second electrode (108) in contact with the layer comprising an organic compound, wherein the partition wall comprises a laminate of an organic resin layer (54) and a light-absorbing layer (2) (see Fig. 8). Hamada teaches that the light-absorbing layer (2) in Fig. 8 may be replaced by the multilayer film (24) of the second embodiment shown in Fig. 5 which inherently absorbs light (see col. 9, lines 48-51). The multilayer film (24) of Fig. 5 includes an insulator layer (12) and a metal film (13). The insulator layer (12) of the light-absorbing layer is located over the first electrode and serves to improve the insulation between the anodes and to obstruct the flow of leak and ensures that the metal film layer (13) is insulated from the anodes (103).

Regarding claim 54, the partition wall (54 + 2) covers other regions than a light emitting region in which the first electrode (103) and the organic compound-containing layer (104-107) are in contact with each other and laid on top of each other (see Fig. 8).

Regarding claims 55 and 57, Hamada teaches the multilayer film including a layer that comprises silicon oxide (layer 12) (see col. 6, lines 43-47).

Regarding claim 56, Hamada teaches the multilayer film including a layer that comprises silicon nitride (layer 12) (see col. 6, lines 43-47).

Regarding claim 63, Hamada teaches the organic compound being a material emitting blue light (see col. lines 23-32).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8, 11, 13-15, 59, 62, and 64-66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamada (US 6,114,715).

Regarding claims 8 and 11, Hamada only shows a bottom-emitting type EL device, and as such does not specifically teach the first electrode being a light transmissive cathode.

However, it is well known in the art that organic EL displays can be of the top-emitting type or bottom-emitting type, simply by reversing the order of the cathode, organic EL layer, and anode. In a top-emitting type El device the cathode is formed of a conductive light transmissive material. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the first electrode be a light transmissive cathode where a top-emitting device is desired.

Regarding claims 13-14, Hamada does not specifically teach the organic EL layer being a white light-emitting material used with a color filter or being a material emitting monochromatic light used with a color conversion layer. However, it is well known in the art that there are there three different methods of making an organic EL display a full-color display including: (1) the three color light-emitting method, as taught by Hamada, where three different types of organic EL material are used that emit lights corresponding to the three primary colors; (2) a white color method in which white light emitted by an organic EL element for emitting white light is passed through a color filter so as to be divided into the three primary colors; and (3) a color conversion method in which a monochromatic light emitting EL element emitting blue light is passed

through a fluorescent dye layer and converted into red and green. The color conversion layers and color filters are located in a sealing member to protect them from outside elements. Each of the methods have different known advantages. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use any of the types to form a full-color organic EL display.

Regarding claim 15, Hamada teaches that the organic El display device provides high-definition images. Hamada does not specifically state that the EL device is used in one of the claimed devices. However, the use of color organic EL devices is such display devices as claimed is well known in the art. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used the organic EL display device taught by Hamada in one of the claimed devices because of its ability to provide high-definition images.

Regarding claims 59 and 62, Hamada only shows a bottom-emitting type EL device, and as such does not specifically teach the first electrode being a light transmissive cathode.

However, it is well known in the art that organic EL displays can be of the top-emitting type or bottom-emitting type, simply by reversing the order of the cathode, organic EL layer, and anode. In a top-emitting type El device the cathode is formed of a conductive light transmissive material. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the first electrode be a light transmissive cathode where a top-emitting device is desired.

Regarding claims 64-65, Hamada does not specifically teach the organic EL layer being a white light-emitting material used with a color filter or being a material emitting monochromatic

light used with a color conversion layer. However, it is well known in the art that there are there three different methods of making an organic EL display a full-color display including. (1) the three color light-emitting method, as taught by Hamada, where three different types of organic EL material are used that emit lights corresponding to the three primary colors; (2) a white color method in which white light emitted by an organic EL element for emitting white light is passed through a color filter so as to be divided into the three primary colors; and (3) a color conversion method in which a monochromatic light emitting EL element emitting blue light is passed through a fluorescent dye layer and converted into red and green. The color conversion layers and color filters are located in a sealing member to protect them from outside elements. Each of the methods have different known advantages. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use any of the types to form a full-color organic EL display.

Regarding claim 66, Hamada teaches that the organic El display device provides high-definition images. Hamada does not specifically state that the EL device is used in one of the claimed devices. However, the use of color organic EL devices is such display devices as claimed is well known in the art. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used the organic EL display device taught by Hamada in one of the claimed devices because of its ability to provide high-definition images.

Claims 9 and 60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamada (US 6,114,715) as applied to claims 1 and 53, above, in view of Oda et al. (US 6,396,208).

Regarding claim 9, Hamada does not specifically teach the first electrode having a concave shape. However, Oda teaches the first electrode having a concave shape so as to utilize the reflection of concave electrode for improving light-collection efficiency (for example, see the abstract).

Regarding claim 60, Hamada does not specifically teach the first electrode having a concave shape. However, Oda teaches the first electrode having a concave shape so as to utilize the reflection of concave electrode for improving light-collection efficiency (for example, see the abstract).

Claims 1-2, 4-5, 8, 10-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamada (US 6,114,715) in view of Iwase et al. (US 6,768,534).

Regarding claims 1, 4-5, and 10, Hamada teaches a light-emitting device comprising an anode as the first electrode (103) connected to a thin film transistor (43) over a substrate (102) having an insulating surface; a partition wall (54 + 2) covering an edge of the first electrode (103); a layer comprising an organic compound (104-107) in contact with the first electrode (103); and a cathode as the second electrode (108) in contact with the layer comprising an organic compound, wherein the partition wall comprises a laminate of an organic resin layer (54) and a light-absorbing layer (2) (see Fig. 8). Hamada does not specifically teach the light-absorbing layer (black matrix layer) comprising multiple layers.

However, Iwase et al. teaches two different types of black matrix films. One comprised of a single layer and one comprising multiple layers. Iwase teaches that the multilayer film has a predetermined reflected light attenuating structure and comprises a chromium metallic layer and

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a light transmissive insulating layer comprising nitride. Accordingly, it would have been obvious to one of ordinary skill at the time the invention was made to reasonably contemplate the use of such a black matrix multilayer film since Iwase teaches that it has a predetermined reflected light attenuating structure and that it is a known alternative to a single layer black matrix film.

Regarding claim 2, the partition wall (54 + 2) covers other regions than a light emitting region in which the first electrode (103) and the organic compound-containing layer (104-107) are in contact with each other and laid on top of each other (see Fig. 8).

Regarding claim 12, Hamada teaches the organic compound being a material emitting blue light (see col. lines 23-32).

Regarding claims 8 and 11, Hamada only shows a bottom-emitting type EL device, and as such does not specifically teach the first electrode being a light transmissive cathode.

However, it is well known in the art that organic EL displays can be of the top-emitting type or bottom-emitting type, simply by reversing the order of the cathode, organic EL layer, and anode. In a top-emitting type El device the cathode is formed of a conductive light transmissive material. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the first electrode be a light transmissive cathode where a top-emitting device is desired.

Regarding claims 13-14, Hamada does not specifically teach the organic EL layer being a white light-emitting material used with a color filter or being a material emitting monochromatic light used with a color conversion layer. However, it is well known in the art that there are there three different methods of making an organic EL display a full-color display including: (1) the

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three color light-emitting method, as taught by Hamada, where three different types of organic EL material are used that emit lights corresponding to the three primary colors; (2) a white color method in which white light emitted by an organic EL element for emitting white light is passed through a color filter so as to be divided into the three primary colors; and (3) a color conversion method in which a monochromatic light emitting EL element emitting blue light is passed through a fluorescent dye layer and converted into red and green. The color conversion layers and color filters are located in a sealing member to protect them from outside elements. Each of the methods have different known advantages. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use any of the types to form a full-color organic EL display.

Regarding claim 15, Hamada teaches that the organic El display device provides high-definition images. Hamada does not specifically state that the EL device is used in one of the claimed devices. However, the use of color organic EL devices is such display devices as claimed is well known in the art. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used the organic EL display device taught by Hamada in one of the claimed devices because of its ability to provide high-definition images.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hamada (US 6,114,715) in view of Iwase et al. (US 6,768,534) as applied to claim 1, above, in view of Oda et al. (US 6,396,208).

Regarding claim 9, Hamada does not specifically teach the first electrode having a concave shape. However, Oda teaches the first electrode having a concave shape so as to utilize the reflection of concave electrode for improving light-collection efficiency (for example, see the abstract).

Claims 1-5, 8, and 10-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamada (US 6,114,715) in view of Kaneda et al. (JP 2000-269473).

Regarding claims 1, 3-5, and 10, Hamada teaches a light-emitting device comprising an anode as the first electrode (103) connected to a thin film transistor (43) over a substrate (102) having an insulating surface; a partition wall (54 + 2) covering an edge of the first electrode (103); a layer comprising an organic compound (104-107) in contact with the first electrode (103); and a cathode as the second electrode (108) in contact with the layer comprising an organic compound, wherein the partition wall comprises a laminate of an organic resin layer (54) and a light-absorbing layer (2) (see Fig. 8). Hamada does not specifically teach the light-absorbing layer (2) (black matrix layer) comprising multiple layers.

However, Kaneda et al. teaches a multilayer light-absorbing film comprising a SiO2 layer (56), a titanium nitride layer (53), an aluminum metal layer (55), and another SiO2 layer (56) (see Fig. 1 and paragraphs 0012-0013) that provides an improved light-absorbing layer that absorbs 90% or more of reflected ambient light, protecting the transistors from degradation and eventual malfunciton. Accordingly, it would have been obvious to one of ordinary skill at the time the invention was made to use such a superior light-absorbing multilayer film in place of the

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single layer film disclosed in the Hamada reference in order to increase the amount of ambient light absorbed providing improved TFT protection.

Regarding claim 2, the partition wall (54 + 2) covers other regions than a light emitting region in which the first electrode (103) and the organic compound-containing layer (104-107) are in contact with each other and laid on top of each other (see Fig. 8).

Regarding claims 6-7, Kaneda teaches the SiO2 layers (56 and 54) being replaced with silicon nitride in order to increase the light absorption even further (to about 99%) (see for example paragraph 0016).

Regarding claim 12, Hamada teaches the organic compound being a material emitting blue light (see col. lines 23-32).

Regarding claims 8 and 11, Hamada only shows a bottom-emitting type EL device, and as such does not specifically teach the first electrode being a light transmissive cathode.

However, it is well known in the art that organic EL displays can be of the top-emitting type or bottom-emitting type, simply by reversing the order of the cathode, organic EL layer, and anode. In a top-emitting type El device the cathode is formed of a conductive light transmissive material. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the first electrode be a light transmissive cathode where a top-emitting device is desired.

Regarding claims 13-14, Hamada and Kaneda do not specifically teach the organic EL layer being a white light-emitting material used with a color filter or being a material emitting monochromatic light used with a color conversion layer. However, it is well known in the art that there are there three different methods of making an organic EL display a full-color display

including: (1) the three color light-emitting method, as taught by Hamada, where three different types of organic EL material are used that emit lights corresponding to the three primary colors; (2) a white color method in which white light emitted by an organic EL element for emitting white light is passed through a color filter so as to be divided into the three primary colors; and (3) a color conversion method in which a monochromatic light emitting EL element emitting blue light is passed through a fluorescent dye layer and converted into red and green. The color conversion layers and color filters are located in a sealing member to protect them from outside elements. Each of the methods have different known advantages. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use any of the types to form a full-color organic EL display.

Regarding claim 15, Hamada teaches that the organic El display device provides high-definition images. Hamada does not specifically state that the EL device is used in one of the claimed devices. However, the use of color organic EL devices is such display devices as claimed is well known in the art. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used the organic EL display device taught by Hamada in one of the claimed devices because of its ability to provide high-definition images.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hamada (US 6,114,715) in view of Kaneda et al. (JP 2000-269473) as applied to claim 1, above, in view of Oda et al. (US 6,396,208).

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Regarding claim 9, Hamada and Kaneda do not specifically teach the first electrode having a concave shape. However, Oda teaches the first electrode having a concave shape so as to utilize the reflection of concave electrode for improving light-collection efficiency (for example, see the abstract).

Claims 23-27, 29, and 31-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamada (US 6,114,715) in view of Kaneda et al. (JP 2000-269473).

Regarding claims 23, 25-27, and 31, Hamada teaches a light-emitting device comprising an anode as the first electrode (103) connected to a thin film transistor (43) over a substrate (102) having an insulating surface; a partition wall (54 + 2) covering an edge of the first electrode (103); a layer comprising an organic compound (104-107) in contact with the first electrode (103); and a cathode as the second electrode (108) in contact with the layer comprising an organic compound, wherein the partition wall comprises a laminate of an organic resin layer (54) and a light-absorbing layer (2) (see Fig. 8). Hamada does not specifically teach the light-absorbing layer (2) (black matrix layer) comprising multiple layers.

However, Kaneda et al. teaches a multilayer light-absorbing film comprising a SiO2 layer (56), a titanium nitride layer (53), an aluminum metal layer (55), and another SiO2 layer (56) (see Fig. 1 and paragraphs 0012-0013) that provides an improved light-absorbing layer that absorbs 90% or more of reflected ambient light, protecting the transistors from degradation and eventual malfunction. Kaneda teaches a layer of silicon nitride between the interface of the titanium nitride film and the SiO2 layer in order to increase the light absorption even further (to about 99%) (see for example paragraph 0016). Accordingly, it would have been obvious to one

of ordinary skill at the time the invention was made to use such a superior light-absorbing multilayer film, which includes at least three layers of different materials, in place of the single layer film disclosed in the Hamada reference in order to increase the amount of ambient light absorbed providing improved TFT protection.

Regarding claim 24, the partition wall (54 + 2) covers other regions than a light emitting region in which the first electrode (103) and the organic compound-containing layer (104-107) are in contact with each other and laid on top of each other (see Fig. 8).

Regarding claim 33, Hamada teaches the organic compound being a material emitting blue light (see col. lines 23-32).

Regarding claims 29 and 32, Hamada only shows a bottom-emitting type EL device, and as such does not specifically teach the first electrode being a light transmissive cathode.

However, it is well known in the art that organic EL displays can be of the top-emitting type or bottom-emitting type, simply by reversing the order of the cathode, organic EL layer, and anode. In a top-emitting type El device the cathode is formed of a conductive light transmissive material. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the first electrode be a light transmissive cathode where a top-emitting device is desired.

Regarding claims 34-35, Hamada and Kaneda do not specifically teach the organic EL layer being a white light-emitting material used with a color filter or being a material emitting monochromatic light used with a color conversion layer. However, it is well known in the art that there are there three different methods of making an organic EL display a full-color display including: (1) the three color light-emitting method, as taught by Hamada, where three different

types of organic EL material are used that emit lights corresponding to the three primary colors; (2) a white color method in which white light emitted by an organic EL element for emitting white light is passed through a color filter so as to be divided into the three primary colors; and (3) a color conversion method in which a monochromatic light emitting EL element emitting blue light is passed through a fluorescent dye layer and converted into red and green. The color conversion layers and color filters are located in a sealing member to protect them from outside elements. Each of the methods have different known advantages. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use any of the types to form a full-color organic EL display.

Regarding claim 36, Hamada teaches that the organic El display device provides high-definition images. Hamada does not specifically state that the EL device is used in one of the claimed devices. However, the use of color organic EL devices is such display devices as claimed is well known in the art. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used the organic EL display device taught by Hamada in one of the claimed devices because of its ability to provide high-definition images.

Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hamada (US 6,114,715) in view of Kaneda et al. (JP 2000-269473) as applied to claim 1, above, in view of Oda et al. (US 6,396,208).

Regarding claim 30, Hamada and Kaneda do not specifically teach the first electrode having a concave shape. However, Oda teaches the first electrode having a concave shape so as

to utilize the reflection of concave electrode for improving light-collection efficiency (for example, see the abstract).

Other Prior Art Cited

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sotoyama et al. (US 6,805,977) provides evidence that the three different methods of making full-color organic EL displays is well known in the art.

Silvernail et al. (US 6,597,111) provides evidence that top-emitting and bottom-emitting displays are well known in the art and that organic EL display devices can be switched between one or the other simply by rearranging the orders of the cathode, EL layer, and the anode.

Response to Arguments

Applicant's arguments filed 10/17/05 have been fully considered but they are not persuasive.

With regards to the Applicant's argument that the partition wall of Hamada (54+2) does not cover an edge of the first electrode, the Examiner respectfully disagrees. Figure 8 shows layer 2 in contact with and covering the sidewall (the edge) of the first electrode (103) that extends in the thickness direction of the electrodes (103).

With regards to the Applicant's argument that none of the cited references disclose the first electrode being "formed in a self-alligning manner using the partition wall as a mask," the Examiner notes that the claim recitation is drawn to a process of manufacturing which is incidental to the claimed apparatus. It is well established that a claimed apparatus cannot be distinguished over the prior art by a process limitation. Consequently, absent a showing of an

unobvious difference between the claimed product and the prior art, the subject product-byprocess claim limitation is not afforded patentable weight (see MPEP 2113).

Applicant's arguments with respect to "Kaneda not teaching the SiO2 layer being replaced with silicon nitride along with the supplied translation have been fully considered and are persuasive. The rejection of claim 7 has been withdrawn.

Allowable Subject Matter

Claims 7 and 58 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 37-52 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Prior art fails to disclose or fairly suggest:

- A partition wall that includes a light absorbing multilayer film comprising a
 laminate of a metal film mainly composed of aluminum, a silicon nitride film, a
 titanium nitride film, and another silicon nitride film, in combination with the
 remaining claimed limitations as called for in claims 7 and 58;
- A partition wall that includes a light absorbing multilayer film comprising a laminate including a reflective metal film, a first light transmissive insulating film comprising nitride, a metal nitride film, and a second light transmissive insulating film comprising nitride, in combination with the remaining claimed limitations as called for in claim 37 (claims 38-41 and 43-52 are allowable for the same reasons since they are dependent on claim 37).

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to *Anthony Perry* whose telephone number is (571) 272-2459. The examiner can normally be reached between the hours of 9:00AM to 5:30PM Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel, can be reached on (571) 272-24597. The fax phone number for this Group is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toII-free).

Anthony Perry Patent Examiner Art Unit 2879

February 20, 2006

NIMESHKUMAR D. PATEL
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

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